

Notice of Allowability

Application No.

09/494,534

Examiner

Faranak Fouladi

Applicant(s)

MURASHITA ET AL.

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment received on 06/21/04.
2. ☒ The allowed claim(s) is/are 1-33.
3. ☒ The drawings filed on 31 January 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 11/13/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



ALEXANDER EISEN
PRIMARY EXAMINER

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DETAILED ACTION

1. This action is responsive to communication: Amendment, filed on 06/10/04.
2. Claims 1-34 are pending in the case, with claims 1, 14, 15, 16, 17, 18, 20-27, 29, 31, 33 and 34 being independent.
3. The present title of the application is "Display Characteristics Recognition Apparatus, Display Characteristics Recognition Program Storage Medium, Computer System, Display Characteristics Adjusting Apparatus and Display Characteristic Adjusting Program Storage Medium" (as originally filed).

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
5. Authorization for this examiner's amendment was given in a telephone interview with Mr. Strom on 10/07/04.
6. The application has been amended as follows:

IN THE CLAIMS

Please amend the claims as follows.

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24. (CURRENTLY AMENDED) A method, comprising:

displaying an image on a display unit with a displayed color determined by both an input signal and a display characteristic of the display unit, and displaying a color chart signal that specifies a color value corresponding to the displayed color;

categorizing the displayed color by a user interactively indicating a perceived color perception category of the displayed color, the color perception category comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category; and

automatically determining a value approximating the display characteristic of said display unit based on the color value corresponding to the color chart signal and based on the indication of the perceived color perception category.

25. (CURRENTLY AMENDED) A computer readable storage storing information for enabling a computer to perform a process, the process comprising:

displaying an image on a display unit with a displayed color determined by both an input signal and a display characteristic of the display unit, and displaying a color chart signal that specifies a color value corresponding to the displayed color;

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categorizing the displayed color by a user interactively indicating a perceived color perception category of the displayed color, the color perception category comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category; and

automatically determining a value approximating the display characteristic of said display unit based on the color value corresponding to the color chart signal and based on the indication of the perceived color perception category.

27. (CURRENTLY AMENDED) A method of color calibration, comprising: displaying a color with a display system; receiving interactive input with which a user categorizes the displayed color by identifying or indicating a perceived color perception category of the displayed color, the color perception category comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category; and automatically determining a value of a characteristic of the display system based on the interactively indicated color perception category.

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29. (CURRENTLY AMENDED) A method of color calibration, comprising:

causing a display system to emit a color, where the emitted color is a product of both an unknown value of a characteristic of the display and a color value passed to the display;

receiving input with which a user categorizes the emitted color by identifying or indicating a perceived color perception category of the emitted color, the color perception category comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category; and

automatically determining the unknown value of the characteristic of the display based on the perceived color of the emitted color.

31. (CURRENTLY AMENDED) A method, comprising:

categorizing the displayed color by a user interactively identifying or indicating a perceived color perception category of a color emitted by a display system, the color perception category comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category;

automatically selecting a value of a characteristic of the display system based on the perceived general category, where the color value is such that, for different display systems, the emitted color of the color value

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tends to be perceived as being in a first general color category when emitted with a display system having a first value of the display characteristic, and the emitted color tends to be perceived as being in a second general color category when emitted with a display system having a second value of the display characteristic.

33. (CURRENTLY AMENDED) A method comprising automatically generating a color profile of a display system by a user interactively categorizing predetermined color values by the user identifying perceived color perception categories of the predetermined color values when displayed by the display system, and matching the perceived color categories to color categories expected to be perceived when displayed with different values of a display characteristic, the color perception categories each comprising a range of a substantial number of humanly perceptible gradations of color within such color perception category.

34. (CANCELLED)

Allowable Subject Matter

7. Claims 1-33 are allowed.
8. The following is an examiner's statement of reasons for allowance: The prior art cited in its entirety fails to teach or suggest a display characteristic recognition apparatus which automatically determines a value approximating the display characteristic of display unit in accordance with the color value of the color chart signal outputted from signal output unit and further in accordance with the interactive input entered through input unit by allowing a user to categorize or specify the displayed color by interactively indicating a perceived color perception category of the display color.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faranak Fouladi whose telephone number is (703)305-3223. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (703)305-4709.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Faranak Fouladi

Patent Examiner
AU 2674
October 12, 2004



**ALEXANDER EISEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2600**